

Grade 6 - Solving One-Step Equations - Test Answer Key

Common Core 6.EE.B.5, 6.EE.B.6, 6.EE.B.7 · maths-pdf.fr/en/

Use this key to score the one-step equations test out of 20 points. Each solution is fully worked, and the scoring line explains how to award each point and partial credit for correct steps.

Grade 6 · Common Core State Standards: **6.EE.B.5**, **6.EE.B.6**, **6.EE.B.7**

Question 1 - Solution check [2 pts]

(a) $7+5=12$: yes.

(b) $2\cdot6=12$, not 14: no.

Scoring: 1 point for each part with substitution shown.

Question 2 - Solve [2 pts]

(a) $x=21-8=13$.

(b) $x=12+5=17$.

Scoring: 1 point for each solution.

Question 3 - Solve products and quotients [2 pts]

(a) $x=54\div6=9$.

(b) $x=9\cdot4=36$.

Scoring: 1 point for each solution.

Question 4 - Rational numbers [2 pts]

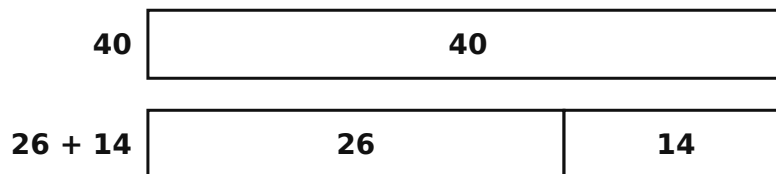
(a) $x=7.1-2.4=4.7$.

(b) $x = 6 \cdot \frac{4}{3} = 8$.

Scoring: 1 point for each solution.

Question 5 - Tape diagram [2 pts]

$x + 14 = 40$, so $x = 40 - 14 = 26$.

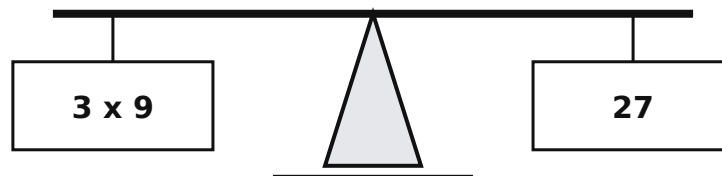


$x = 26$.

Scoring: 1 point for the equation; 1 point for 26.

Question 6 - Balance [2 pts]

$3n = 27$, so $n = 27 \div 3 = 9$.



Check: both sides are 27.

Scoring: 1 point for the equation; 1 point for 9.

Question 7 - Write and solve [2 pts]

$m + 15 = 50$.

$m = 50 - 15 = 35$.

Scoring: 1 point for the equation; 1 point for 35 minutes.

Question 8 - Pizza party [3 pts]

$$7p = 84, \text{ so } p = 84 \div 7 = 12.$$

$$10 \text{ pizzas: } 10 \cdot 12 = 120.$$

84

\$84

7p

12	12	12	12	12	12	12
----	----	----	----	----	----	----

Each of 7 equal parts is \$12.

Scoring: 1 point for the equation; 1 point for \$12; 1 point for \$120.

Question 9 - Two-part problem [3 pts]

$$b + 3 = 11, \text{ so } b = 8.$$

$$4 \text{ books: } 4 \cdot 8 = 32.$$

Scoring: 1 point for the equation; 1 point for \$8; 1 point for \$32.

Total
20 points